genera Erynnis (Carcharodus) and Hesperia (sensu lato), that an insect erroneously recorded by me in the Ent. Record, vol. xvii., p. 150, as Carcharolus laraterae is a new species closely related to, but distinct from, Erynnis standeri, Rev., which was described and figured in the last fascicule of vol. ii. of the Bulletin of the Lepidopterological Society of Genera. The new species, to which Dr. Reverdin has given the specific name of rhamses, Rev., will be described and figured in the next number of the above-mentioned Bulletin. Further, I may add that specimens of what I took to be Erynnis (Carcharodus) altheae from the Cedars of Lebanon (August) and the Constantinople district (May, June and August) prove, after examination of the genitalia, to be the newly described E. orientalis, Rev., which was first described from Greek specimens. Dr. Reverdin informs me that, as far as he is able to judge from the small amount of material I have been able to send him, there is a distinct seasonal difference between the first and second broods of this insect.

The Hesperia resembling a "very heavily spotted phlomidis," to which I have referred in the Ent. Record, vol. xvii., p. 150, and vol. xviii., pp. 48, 307, 308, and which occurs sparingly in the desert East of the Nile near Cairo, has been examined by Dr. Reverdin and proves to be a new species, which will also be described by Dr. Reverdin and and figured by M. Culot in the next number of the Geneva Bulletin, and to which the former has given the name of amenophis. Finally I may note that the examination of the genitalia of Constantinople specimens of H. amoricanus, sent by me to Dr. Reverdin for examination, prove to be in some cases H. armoricanus, in others H. persica, which Dr. Reverdin described in the last number of the Bulletin as being possibly a new species, possibly a form of H. armoricams. Dr. Reverdin writes, " les armoricanus ont les uns la valve d'armoricanus typique et d'autres celle de persica, mais malheureusement ces deux catégories ne répondent pas aux deux formes à bord abdominal gris ou blanc et il y a un mélange sans correspondance. Celà me rend encore plus perplexe que jamais sur la valeur de cette forme particulière de la valve et je ne sais plus du tout si persica est ou non une forme d'armoricanns."

May I terminate by thanking Dr. Reverdin for the invaluable assistance he has given me and many another entomologist in the study of this difficult group of butterflies, and by expressing the hope that he may long continue to elucidate the relationships of the puzzling "skippers."

Notes on the Synonymy of Boisdaval's N. American species of Lycanida.

By J. McDUNNOUGH, Ph.D.

Mr. Bethune-Baker has asked me to contribute a paper dealing with the synonymy of certain species of Lycaenidae, described from California by Boisduval in two papers appearing in Ann. Soc. Ent. Fr., (2), x., 1852, and Ann. Soc. Ent. Belg., xii., 1869. M. Charles Oberthür, in one of the most recent numbers of his Études de Lépidoptérologie comparée, has published excellent figures of the actual type specimens still in existence in his wonderful collection; these types I had the privilege of examining whilst on a recent visit to Europe and can vouch for the accuracy of the reproduction. Thanks to M. Oberthür,

a problem that has vexed American entomologists for the past half century, riz., the correct identification of Boisduval's species is at last

satisfactorily disposed of.

Taking Dr. Dyar's list as a basis (Bull. U.S. National Mus., no. 52, 1902), I shall offer a few notes on the various species, following the order of the above catalogue; the material at my disposal is contained in the Barnes' collection.

THECLINÆ.

Habrodias granus, Bdv.—The generally accepted notion of this species proves correct; the ground colour on the underside of the type specimens is rather yellower than anything I have before me, which may possibly point to a local form; the species varies considerably in the distinctness of the marginal lunules.

Thecla borus, Bdv.—This is at present listed as a synonym of californica, Edw., and I think correctly so. Unfortunately none of Edwards' types of Lycaenidae in the Edwards' collection (now in the Carnegie Museum at Pittsburg) are marked as such. Under californica there are 1 \$\mathscr{\gamma}\$ and 2 \$\mathscr{\gamma}\$ s, labelled "Calif. (O.B.)," 2 \$\mathscr{\gamma}\$ s, "Wash. Terr. (Morrison)," and 1 \$\mathscr{\gamma}\$, "Vanc. Is." These all belong to a form with greatly reduced red marginal lunules on secondaries and do not correspond with the original description in this particular, so can hardly be considered as types." T. cygnus, Edw., described from a \$\mathscr{\gamma}\$ from Nevada (Hy. Edwards), is represented in the Edwards' collection by 1 \$\mathscr{\gamma}\$, "Nevada," and 1 \$\mathscr{\gamma}\$, "Calif.," which are identical with borus, Bdv. It is possible that Edwards, having lost the true type of californica, or returned it to Dr. Behr, and misidentified it at a later date, redescribed the species under the name of cygnus. For the present, in any case, the synonymy as given in Dyar's list will have to stand.

Thecla auretorum, Bdv.—This species is unknown to me; it is a tail-less form in the 3 sex, apparently closest to tacita, Hy. Edw. Skinner (Ent. News, xxv., 47) lists spadix, Hy. Edw., as a synonym, and Comstock (Jour. N. Y. Ent. Soc., xxii., 34) places both tetra, Behr and spadix, Edw., in the synonymy. I have not seen the types of either species but the original descriptions of both certainly call for something very dissimilar to Oberthür's figure, so for the present I can see no reason for regarding these three names as applying to a single species.

Thecla sylvinus, Bdv.—In the Bull. Brooklyn Ent. Soc., ix., 32, Mr. Wm. Comstock has an excellent article on this species and its allies with which we entirely agree. He lists the synonymy as follows:—

sylrinus, Bdv., 1852. ... San Francisco, Calif. var. itys, Edw., 1882. ... Prescott, Ariz. var. putnami, Hy. Edw., 1876. ... Utah.

I have not seen much material from the lowlands of California and have not been able to match Boisduval's type exactly; specimens from higher altitudes in California tend apparently to a diminution in the size of the spots on underside; the upperside is quite variable in the amount of fulvous suffusion on secondaries; the species may be distinguished from californica, Edw., by the fact that the blue patch

at anal angle of hindwings on underside is not surmounted by a red lunule, nor do the red lunules extend so far towards costal margin,

being often reduced to a single one preceding the blue patch.

Regarding dryope, Edw., I might state that the specimens in the Edwards' collection cannot be regarded as types as they bear labels not coinciding with the original description. The description was drawn up from a single ? from "Plain Co., Colorado" in the Hy. Edwards' collection; this locality was later (Tr. Am. Ent. Soc., iii., 193) corrected to "Placer Co., Calif." and the & description added. It is probable that the two metatypes mentioned by Mr. Comstock as existing in the Hy. Edwards' collection in the American Museum at New York are really the true types. We have not examined these but are willing to accept Mr. Comstock's statement that they are distinct from sylvinus, Bdv., although closely related. The specimens in the Edwards' collection at Pittsburg belong to what we consider the mountain race of sylvinus, i.e., the form with reduced markings on the underside.

Thecla saepium, Bdv.—This species is well known and needs no comment; the type shows considerable white markings to the line of spots on underside, but this is merely individual, a long series before me from various localities showing all degrees of variation in this respect.

Thecla nelsoni, Bdv.—The general usage of this name proves to be perfectly correct and further comment is superfluous. We can see nothing that would indicate that exoleta, Hy. Edw., and muiri, Hy. Edw., are anything more than mere individual aberrations, the one with nearly obsolete markings, the other with the markings better defined than in the type.

Incisalia iroides, Bdv.—I consider that Comstock is correct (Jour. N. Y. Ent. Soc., xxii., 34), in not accepting Skinner's statement that iroides is a synonym of the Eastern augustus, Kirby (Ent. News, xxv., 47); the two are no doubt closely allied, but I might point out that augustus shows decidedly checkered fringes in most instances, whilst in iroides, the fringes are almost unicolorous; we are probably at least dealing with racial forms.

Incisalia eryphon, Bdv.—Closely related to niphon, Hbn.; our series of both species are not long enough to point to any one feature which might be used to separate the two forms; possibly the dentate nature of the subterminal black line of underside in eryphon may be distinctive, but careful breeding will probably decide the question.

Callophrys dumetorum, Bdv.—This is the N. American representative of the European rubi, Linn. In Ent. News, xxiii., 3, Messrs. Haskin and Grinnell have endeavoured to point out the differences between the two forms, and while, to judge from the material before me, their conclusions are not entirely correct, I quite concur with them in holding the name dumetorum, Bdv., separate from rubi, L.; viridis, Edw., will remain as a synonym. As pointed out in the article above mentioned, Middle Californian specimens are typical showing the white spots on underside very distinctly; Southern

Californian specimens on the other hand, notably from San Diego, show hardly a trace of white; in the long series before me the 3 s are constantly deep smoky on the upperside, the 2 s shaded with rufous. I only know this species from California; the record from Colorado (Barnes, Ent. News, xi., 330) is incorrect; the specimens on which it was based are before me and should be referred to apama, Edw., being a form of this species with greatly reduced markings on underside; certain better marked specimens in the series however render the reference certain.

Messrs. Haskin and Grinnell would also refer affinis, Edw., to the synonymy of dumetorum, but incorrectly so in my opinion. Both sexes, as stated by Edwards, are "glossy red-brown," and the fringes on the underside of secondaries are pure white outwardly and show none of the checkered appearance usually found to a greater or less degree in dumetorum; we only know affinis from Silver Lake, Utah; it is probably a high altitude form.

CHRYSOPHANINÆ.

Tharsalea arota, Bdv.—This form is closely related to rirginiensis, Edw., but is smaller with duller coloration on underside; the white submarginal band especially is much less prominent and the primaries show none of the bright orange suffusion found in rirginiensis; we only know the specimen from California.

Gaeides aanthoides, Bdv.—A well-known species; the markings of underside are not so cleanly cut as in dione, Scud., from the Central Plain region, the dots in xanthoides usually showing a central whitish shade.

Gacides yoryon, Bdv.—The species has always been correctly identified; it is apparently not very common.

Epidemia zeroë, Bdv.—This becomes a synonym of mariposa, Reak.; owing to a peculiar error this name had become interchanged with nivalis, Bdv., although the original description is perfectly clear regarding both species.

Epidemia nivalis, Bdv.—Boisduval's name becomes valid for the species heretofore known as zeroë, with ianthe, Edw., as a synonym. This latter form is slightly better marked on underside than typical nivalis, but individuals vary in this respect.

Epidemia halloides, Bdv.—A common species and widespread; castro, Reak., is apparently correctly listed as a synonym.

Heodes hypophlaeas, Bdv.—This species is not figured by Oberthür, nor have I any note on the type; the usually accepted determinations are apparently correct, although I have seen no specimens from California.

LYCÆNINÆ.

Satyrium snasa, Bdv.—This species has been correctly listed as a synonym of fuliginosa, Edw.; the markings on the underside are quite variable in distinctness; I have taken the species on Mt. Hood, Oregon, at an altitude of 6000-7000 ft. in August quite commonly.

Cupido heteronea, Bdv.—This species has presented no difficulty; the peculiar purplish reflection on upperside is quite characteristic.

Cupido icarioides, Bdv.—The species is apparently common all through the higher regions of California and is very variable on the underside; the type shows the black dots distinct, white ringed, the submarginal ones preceded by slight white arrow-like dashes; many specimens before me lack these dashes and others again show a tendency towards obsolescence of the black markings on secondaries, the dots being largely white with minute black centres, and in some instances almost all traces of these may be lost, on the primaries the black spots are usually considerably larger than on secondaries and show less tendency towards obsolescence. The 2 s usually show a considerable amount of blue suffusion on upperside and traces of

reddish marginal band near anal angle of secondaries.

I consider fulla, Edw., a synonym of this species: it was described from one 3 and one 2 from California, obtained from Dr. Behr and the types are not in the Edwards' Collection at Pittsburg; the series there contains specimens from California, Utah and Colorado, all labelled fulla in Edwards' handwriting, and specimens before me which I have compared with Edwards' series are certainly icarioides, Bdv.; lycea, Edw., from Colorado, is so close that it would be hard to point to any definite point of distinction as both forms vary in the same manner; it will do no harm, however, to hold the name for Colorado specimens. Pembina, Edw., at present listed as a synonym, I do not know; the types should be in the Hy. Edw. Collection. The remaining names in the synonymy of icarioides are apparently misplaced; pardalis, Behr, erymus, Bdv., and, I think, maricopa, Reak., all apply to a species distinct from icarioides, which I will deal with later; daedalus, Behr, is stated by Mr. Comstock to be close to saepiolus, Bdv., it is thus placed in the Barnes' Collection, but on what grounds I know not; Behr's types were all destroyed in the San Francisco fire and his short Latin diagnosis is insufficient to determine the species; however, it is possible that some of the Eastern collections contain material that has been identified by Dr. Behr, which has led to the above association. I can see nothing which would warrant a separation of phileros, Bdv., from icarioides; Dr. Boisduval was of the opinion, when he described phileros, that it was merely a local race of icarioides, but I fail to see on what grounds even this supposition could be based; long series before me from various Californian localities show quite as much affinity to one as to the other, and specimens can be picked out of one series to exactly match either type. Much careful study is still necessary to determine the local and racial variations of this puzzling species, but for the present we offer the following synonymy based on the above remarks:

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icarioides, Bdv., 1852 ... Calif.

phileros, Bdv., 1869.

fulla, Edw., 1870.

fuliginosa, Stkr. (nec Edw.), 1874.

mintha, Edw. (?), 1870.

var. lycea, Edw., 1864 ... Colorado.

var. pembina, Edw., 1862 ... Manitoba and N.W. Canada.
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Cupido erunus, Bdy.—The species is quite distinct and apparently rare, or at least local. I consider it will fall as a synonym of pardalis, Behr. Behr's description is short, but he fortunately states that the species shows great resemblance to the European alcon; this is very true of specimens before me, which I have compared with Boisduval's types, and so removes most of the doubt in my mind concerning the correctness of the above synonymy. I have not seen the type of maricopa, Reakirt, recently; it is a ? without any blue on upperside, and from my notes the name may also apply to the same species as erymus, but a further study of the type will be necessary before I can definitely decide this point. Of this species there are only one & and three 2 s before me from Sonoma Co., California, but they are at once separable from icarioides by their darker undersides with heavy rows of submarginal and median black spots; once seen the species is not easily confounded with any other.

Cupido saepiolus, Bdv.-This species and rufescens, Bdv., present certain features which are rather puzzling and which will require careful study and breeding before any definite statements can be made; the group may be readily known by the presence of a distinct dark discal dash on upperside of forewings in the 3 and small reddish subterminal lunules near anal angle on underside of hindwings; the 3 types of saeviolus and rufesceus are very similar, the latter being rather paler both on upper- and underside and with very narrow border to wings on upperside compared with that of saepiolns; the 2 s present greater differences of coloration, rufescens, as the name expresses, being suffused with brown, whereas sacriolus is darker with blue basal

All the 2s before me from California, including those from high altitudes, belong to the rufescens form, whereas the 3's seem closer to saepiolus; the saepiolus form of the 2 is before me from localities in Arizona, Idaho, and Colorado, i.e., the Rocky Mountain district. In my estimation we have only one species, but whether these two names may be applied to geographical races, or whether they merely represent individual variation, is a question that will require study on the part of collectors in California. As has been already stated daedalus, Behr, is said to belong to this group; as Dr. Behr described the species at the same time as he did achaja, which is undoubtedly a synonymn of sagniolus, and as he makes no mention in the short Latin diagnosis of either the discal streak of primaries above or the reddish tinge to submarginal lunules below, I have my doubts concerning this associa-Behr's description reads as follows:—"Icarioidi similis sed subtus, que puncta in Icarioide sunt rotundissima, in Dædalo sunt transverse producta lineaque discoidalis alarum posticarum, quæ in Icarioide deest et pro qua macula alba subtriquetra inclitat, hac in specie linea transversa distinctissime nigra vindicatur." The three specimens of the type lot were collected in the Alpine region around the head waters of the Tuolumne River, i.e., at an altitude of over 10,000ft.

The above description would fit partially with either icarioides, saepiolus, or pheres; as all these names date back to 1852 it is evident that daedalus will in any case be a synonym so its exact position

becomes fairly unimportant.

Cupido pheres, Bdv.—Typical pheres is readily recognisable by its peculiar shade of blue at base of wings in the $\mathfrak P$ and the single row of white round spots on underside of secondaries; the outer margin of secondaries in $\mathfrak F$ is at times slightly suffused with pale grey-blue as is usual in the $\mathfrak P$.

There is a tendency for the white spots of the underside to become quite distinctly pupilled with black, and 3 specimens of this form are very hard to separate from those forms of icarioides where the black spots tend to obsolescence. A fairly safe means of separation seems to be found on the upperside of hindwings, which in 3 icarioides (at least in Californian specimens) shows a more or less distinct row of marginal black spots lacking in pheres, for the most part entirely, or only very faintly visible.

Evins, Bdv., at present listed as a variety of pheres, I should be inclined to remove from this association and place closer to icarioides: if M. Oberthür's figure of the $\mathfrak P$ be correct (I have no note on this), then it probably will prove a good species; the $\mathcal F$ very closely resembles a small icarioides; the species was described from the southern portion of California, and I have nothing before me that I

could definitely associate with this name.

Nomiades xerces, Bdv.—Readily recognizable by the large white unpupilled spots on underside of both wings; of late years Californian collectors are disposed to regard this as merely a form of what has generally gone by the name of antiacis, Bdv. (cf. Williams, Ent. News, xix., 476; Huguenin, Ent. News, xxv., 326). I think this is correct, only the name antiacis must be changed to polyphemus, Bdv., which can best be characterised as xerces with prominent black pupils to the white spots of underside; as Williams has stated, all kinds of intergrades between the two forms occur; mertila, Edw., is an aberration of polyphemus in which on underside of forewings the discal dash is joined to the base of wing by a white streak. Regarding antiacis, my own opinion, from an examination of the type alongside the type of polyphemus, was that it was an aberrational form of this species, but in spite of much material before me I fail to match M. Oberthur's figure exactly; for the present therefore the name must remain doubtful.

Concerning behri, Edw., Mr. Williams regards this as a good species (loc. eit., p. 482); I have specimens of what is evidently Mr. Williams' behri before me from San Francisco and concur with him that it is distinct from polyphemus and more closely related to oro, Scudder, than anything else; there is, however, some doubt as to just what behri, Edw., is; the type specimens were received from Dr. Behr and may have been returned to him; my notes on the specimens at Pittsburg made several years ago are as follows: "In Edwards' Coll. two \$\mathcal{G}\$ s and two \$\mathcal{G}\$ s from California labelled behrii in Edwards' handwriting. The \$\mathcal{G}\$ s differ from each other in depth of blue and breadth of marginal border; the underside shows traces of submarginal spots which would preclude association with antiacis; the \$\mathcal{G}\$ s look like the black-spotted form of

xerces."

A form of Mr. Williams' behri from Southern California with much reduced spots on underside of hindwings has been commonly known as polyphemus by various Californian collectors; this is an error as a reference to M. Oberthür's excellent figure at once shows.

Orcus, Edw., is evidently an aberration with greatly reduced maculation on underside, but of what species I cannot say as I have not seen the type; it should be in the Hy. Edwards' Collection.

Phaedrotes piasus, Bdv.—The species has been completely misidentified and placed as the Californian form of ladon, Cram. (pseudargiolus, B. and Le C.). In reality the name applies to the same species as that which has been known as sagittigera, Feld., and

has priority over this name.

As far as I can judge by the material before me there are distinctly two forms of this species; the one has the underside rather pale grey with the white area rather diffuse and not sharply defined outwardly by dark subterminal lunules; this is typical piasus, and to judge by Felder's figure (I do not know the type) sanittigera, Feld., also; we have a series of this form from the higher mountain regions of Tulare Co., California, the other form has the underside much darker, the white area more distinct and sharply defined and the subterminal dark lunules of secondaries more prominent and often tinged with reddish; this form is before me from the southern coast region (Los Angeles) and the Rocky Mountains extending from New Mexico to British Columbia; catalina, Reak., with rhaea, Bdv., as a synonym would apply to the coast form of S. California, the vicinity of Los Angeles being practically the type locality for both names, whilst if necessary to differentiate the Rocky Mt. form, dannia, Edw., may still be used; the only point of difference I can point out between Rocky Mt. specimens and those from S. California is that the former show black ocelli to the submarginal lunules preceding the anal angle of secondaries, which are absent in the few specimens before me from the neighbourhood of Los Angeles.

I do not know to which form lorquini, Behr, and riaca, Edw., would refer; very possibly they would become synonyms of typical

piasus.

Philotes regia, Bdv.—This is correctly listed as a synonym of sonorensis, Feld.

Agriades nestos, Bdv.—This name and also tehana, Reak., are correctly placed as synonyms of podarce, Feld.

Rusticus enoptes, Bdv.—Typical enoptes has a broad black border to upperside of both wings, checkered fringes on primaries only, and on underside the submarginal lunules tinged with red outwardly, which colour does not form a broad continuous band occupying the whole subterminal space; the ground colour of the underside is greenishgrey. I do not at all concur with Dr. Skinner's opinion (Ent. News, xxii., 259) that enoptes, Bdv., glaucon, Edw., and blattoides, Behr, are one species; I imagine that Dr. Skinner has never seen the true blattoides: I certainly never had it until last year, when we received a splendid series from an altitude of 11,000 ft. in Tulare Co., California, a spot very close to the type locality of similar altitude. Behr very aptly compared his species with the European battus=orion, Pall., and in the heavy quadrate black markings of the underside it even surpasses this species; the fringes of upperside are checkered on both wings prominently, the outer black border of secondaries tends to break up

into round spots shaded inwardly with reddish-orange; on the underside, apart from the very heavy, almost confluent, black markings, a distinctive feature is a broad black line at base of fringes and a subterminal continuous orange band; the 2s have a continuous orange band subterminally on upperside of secondaries which does not, however, attain the costa. There is a series of typical enoptes before me from the same locality and there is not the least difficulty in at once separating the two species. The status of glancon, Edw., I am unable to determinate at present; it was described from Nevada specimens received from Hy. Edwards and the types may be still in his collection; they are not at Pittsburg, the series of so-called glancon in the Edwards' collection there, being a very heterogeneous assemblage.

A great deal of careful field work will be necessary to work out the correct relationships of the various forms of this group which, apparently, to judge by numerous specimens before us, tends to break up into several geographical races as well as high and low altitude

forms.

Rusticus nirium, Bdv.—This is apparently correctly placed as a synonym of shasta, Edw.; the types of this latter species, received from Dr. Behr, are not in the Edwards' collection however, and are probably lost, so that the original description is all we have to fall back upon. Lupini, Bdv., at present listed as a synonym of shasta falls into the acmon group.

Rusticus antaegon, Pdv.—This is a synonym of acmon, Dbldy. and Hew., as listed; typical acmon is distinguished by its pale purplishblue colour and very narrow black border to primaries.

Rusticus Iupini, Bdv.—I consider this a good species; it is at once distinguished from acmon (antaegon) by its deeper blue colour and much broader black border to primaries. I have before me six 3 s from Tulare Co., California, that are typical; it is apparently more restricted in its distribution than acmon. It approaches very close to monticola, Clem., but this latter species is of a brilliant greenish-blue on upperside and the dark border of primaries is slightly narrower.

Rusticus philemon, Bdv.—Correctly listed as a synonym of anna, Edw. I have long series from various localities in the Sierra Nevada Mts. before me; the black spots on the underside vary in size and the marginal maculation often tends to indistinctness, even more so than in the 3 type of philemon, figured by M. Oberthür; this is, however, merely individual, not racial. The 2 s rarely show any blue scaling on upperside. Cajona, Reak., and argyrotoxus, Behr, are probably correctly listed as synonyms of anna, Edw.; the latter name certainly refers to this species, the type specimens being taken in the Sierra Nevada Mts.

Everes amyntula, Bdv.—Mr. Bethune-Baker has ably treated of this species in the Ent. News, Vol. XXIV., 1913, p. 97 et seq. and I have nothing further to add to his remarks.

Brephidium exilis, Bdv.—This small and very distinct species has

been correctly identified by American entomologists; I can see no difference between Texan and Californian specimens before me, so imagine that fea, Edw., described from Texan material, is correctly listed as a synonym.

In conclusion I would point out that there is still a great deal of very careful work necessary before the synonymy of our N. American Lycaenidae is straightened out; thanks to M. Oberthür we are now able to definitely fix the nimotypical form of Boisduval's species; Behr's types being all destroyed, leaves us only his short and often inadequate Latin diagnoses to fall back upon, but fortunately he has stated his type localities more definitely than Boisduval, so that material from these regions will probably be of aid in definite fixation; Reakirt's socalled types are in the Strecker Collection in Chicago and will have to be studied carefully; Edwards' species will probably cause the most confusion as the material which served for a number of his earlier descriptions is apparently not contained in his collection in Pittsburg and may have been returned to the original owners, or lost; if we add to this the unfortunate habit that Edwards had of not labelling his types and of misidentifying his own species at a later date and incorrectly labelling them in his collection as it now stands, one can form some idea of the difficulties to be encountered in a study of the Lycaenidae. It is a source of great surprise to me that some of our so-called specialists in Diurnal Lepidoptera have for years been content to leave the nomenclature in this unsatisfactory condition; fifteen years ago, when most of the authors of a large portion of our names were still alive, it would have been a much simpler matter to locate the types, or at least obtain definite information concerning them, but this, alas, has been neglected, and we poor unfortunates of a later generation are left to solve the problems as best, or as badly as, we may, giving our own personal interpretation to the descriptions and paving the way for long and futile discussions on nomenclature in the journals, constant shifting of names, and corresponding disgust on the part of economic and practical entomologists who care less for the law of priority than they do for a stable system of nomenclature.

Mr. Bethune-Baker on the genus Lycænopsis.

By T. A. CHAPMAN, M.D.

I wish to say a word as to how Mr. Bethune-Baker treats my statements as to the genera *Lycaenopsis*, *Cyaniris*, and *Celastrina* (in the *Proc. Zool. Soc.*, 1909, p. 419), in his "Synonymic notes on the *Ruralidae*" in *Ent. Rec.*, vol. xxvi., p. 162.

I have a dim idea that he is poking fun at me, but being a Scotchman, I fear I shall need a surgical operation to enable me to see the

point of the joke.

He interprets me as meaning that if haraldus to which the generic name Lycaenopsis was given, be not congeneric with argiolus, then the generic name Lycaenopsis is to leave haraldus and attach to argiolus. If such a thesis commended itself to me, my intelligence must be so low, that my not seeing the joke is comprehensible.

If I might, in such suspicious circumstances, venture on a vague